MULTISTANDARD VIDEO DECODER AND DECOMPRESSION SYSTEM FOR PROCESSING ENCODED BIT STREAMS INCLUDING STORING DATA AND METHODS RELATING THERETO

USSN: 09/771,062   Status: Pending
Our Reference: 94100414(EP)USC1X1C1D3 PDDD   Total Claims: 7

1   1.   A method of storing data, comprising:

2   receiving a sequence of data words of a first predetermined width and different

3   respective formats;

4   splitting the data words of the received sequence to form new data words of a

5   new sequence, the new data words having a second predetermined width;

6   packing the consecutive new data words consecutively in a token buffer of a

7   second width without holes between the packed new data words; and

8   unpacking the data words to reproduce the new sequence of new data words.

1   2.   The method of claim 1, further comprising:

2   writing a block of data from the token buffer to a random access memory device

3   configured to store words of the second width.

1   3.   The method of claim 1, further comprising:

2   expanding out run length code in the unpacked words.

1   4.   An inverse modeler, comprising:

2   a data unpacker to unpack data words received from an input terminal to a

3   different length format;

4   a data expander coupled to the data unpacker; and

5   a data padder to pad data tokens received from the expander.

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1   5.   The inverse modeler of claim 4, wherein the data expander expands out

2   run length codes into runs of zeros followed by a level in the packed data.

1   6.   The inverse modeler of claim 5, wherein the data padder pads the last

2   word of the expanded tokens.

1   7.   The inverse modeler of claim 4, wherein the data unpacker deletes data

2   between a flush signal and a block end signal.

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